Application No.: 09/066.898 Docket No.: 10011143-1 47429-00073USPT

AMENDMENTS TO THE CLAIM

the steps of 1. (currently amended) A method for time aligning first and second signals, comprising: 1 2 modulating said second signal by said first signal to provide a third signal; and 3 determining frequency components component strengths of said third signal, said 4 frequency components component strengths being indicative of time alignment between said first signal and said second signal signals, wherein said step of determining frequency 5 6 component strengths of said third signal comprises; 7 filtering said third signal to provide a filtered signal while sweeping said 8 second signal through a time delay; and 9 detecting a level of said filtered signal, said level being indicative of time alignment between said first signal and said second signal, said step of detecting a level of said 10 11 filtered signal comprises: 12 first detecting when said filtered signal is at a minimum level 13 during said sweeping, said minimum level occurring at a first time delay value; 14 second detecting when said filtered signal is next at said minimum 15 level during said sweeping, said next minimum level occurring at a second time delay value; and 16 setting a time delay value for said second signal at a delay value 17 between said first time delay value and said second time delay value; 18 wherein said first signal comprises a data signal encoded in a predetermined bit 19 pattern in a Non-Return-to-Zero signal format, said second signal comprises a Return-to-Zero 20 pulse signal having a frequency equal to a data interval of said first signal, and said third signal comprises a data signal in which said data is encoded in a Return-to Zero signal format. 21

- 1 2. 4. (cancel)
- 1 2 8. (currently amended) The method according to Claim [[4]] 1, wherein said step of
- 2 detecting a level of said filtered signal further comprises:
- the converting said filtered signal to a DC voltage signal; and
- 4 measuring a voltage level of said DC voltage signal.
- 6. (cancel)
- 1 3 1/2. (currently amended) The method according to Claim [[6]] 1, wherein said first and
- 2 second detecting steps comprise converting said filtered signal to a DC voltage signal, and
- 3 detecting the voltage level of said DC voltage signal during said sweeping.
- 1 4 8. (original) The method according to Claim 1, wherein said first signal and said
- 2 second signal are in correct time alignment when a fundamental frequency of said third signal
- 3 equals one-half the frequency of said second signal.
- 1 5 %. (currently amended) The method according to Claim [[4]] 1, wherein said step of
- 2 filtering further comprises filtering said third signal with a low pass filter.

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- 1 6 10. (original) The method according to Claim 1, wherein said first and second signals
- 2 comprise optical signals.
- 3 11.-20. (cancel)

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21. (new) 1 An apparatus for time aligning a first signal and a second signal, said first 2 signal being a Non-Return-to-Zero data test signal and said second signal being a Return-to-Zero 3 pulse signal, said apparatus comprising: 4 a modulator for modulating said second signal with said first signal to provide a 5 third signal; a filter for filtering said third signal to provide a filtered signal, said filter filters 6 said third signal while sweeping said second signal through a time delay range; and 7 a detector for detecting a fundamental frequency of said third signal, said detector 8 9 detecting when said filtered signal is at a minimum level at a first delay value, said detector 10 further detecting when said filtered signal is next at said minimum level at a second delay value, 11 said detector further providing a delay value for said second signal being at a time delay value 12 between said first time delay value and said second time delay value.